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USSR

MUZLOV, D. P. and TARAN, Yu. A., Priborostroyeniye, No 2, 1972, pp 77-79

of their formula for finding the mathematical expectation of error in the gyrocompass, the authors use the "Amur" type of gyrocompass under orbital motion of the center of gravity of a ship in a swell. They are associated with the Ryazan Radio Engineering Institute.

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USSR

VDC: 531.383

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MUZLOV. D. P. and FEDOROV, V. P.

"Behavioral Peculiarities of a Combination Hydrostatic Gyrocompass Suspension Under Vibration Conditions"

Leningrad, Priborostroyeniye, No 5, 1972, pp 68-72

Abstract: Errors in the "Amur" type of gyrocompass on a mobile base are functions of the suspension system's dynamic properties. An element in the system is the mercury cushion maintaining the gyrosphere inside the follow-up sphere. This paper offers the results of an investigation of the motion of the cushion under single-direction horizontal vibrations, where experimentation showed marked nonlinearities in the cushion's motion in the fundamental resonance region. An analysis is given of the cushion's behavior by a method based on the introduction of nonlinearities into the conditions of the motion of a fluid mechanical analog rather than the conditions of the hydrodynamic problem; the mechanical analog of a solid spherical segment is chosen. The equations of motion of the segment are stated and solutions for them are found. It is shown that in the region of fundamental resonance, oscillations of the cushion may develop in the plane perpendicular to that of the

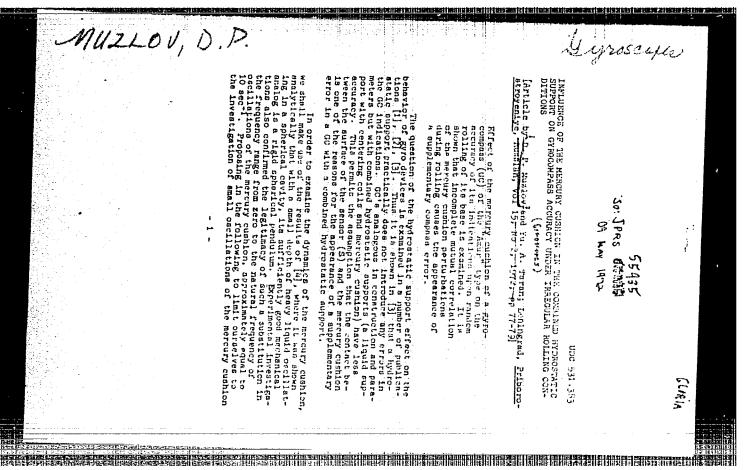
USSR

MUZLOV, D. P. and FEDOROV, V. P., Priborostroyeniye, No 5, 1972, pp 68-72

disturbance, and that such oscillations may result in azimuth errors of the "Amur." The authors are associated with the Ryazan Polytechnical Institute.

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USSR

MUZRABEKOV, Sh. M., NADZHIMUTDINOV, K. N., and KAMILOV, I. K., Tashkent Medical Institute

"Effect of Tetramethylthiuram Disulfide (TMTD) on the Action of Some Drugs"

Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 11, 1972, pp 8-11

Abstract: TMTD, a pesticide used to treat cotton seeds, grains, etc., was found to potentiate the effect of the hypnotic hexobarbital and that of the convulsant pentylenetetrazol in rats. TMTD injected intraperitoneally at doses ranging from 1/20 to 13 LD₅₀ after the administration of hexobarbital increased the duration of the animals' sleep by 65%. At the larger dose the effect persisted 5 days. At doses of 150 and 120 $\mathrm{LD_{50}}$ TMTD injected intraperitoneally into rats given pentylenetetrazol intensified the convulsions by 25 and 75%, respectively. Prolonged injection of low doses of the pesticide had a wavelike effect, the peak occurring after the first month. Both hexobarbital and pentylenetetrazol are known to be metabolized in the liver. The intensification of their effects under the influence of TATO is attributed to the inhibitory action of the pesticide on microsome metabolism in the liver.

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- 57 -

UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--KINETICS OF HOMOGENEOUS BUTADIENE POLYMERIZATION CATALYZED BY
TITANIUM CHLORIDE IODIDE, TRIISOBUTYLALUMINUM -UAUTHOR-(04)-BRESLER, L.S., GRECHANOVSKIY, V.A., MUZSAY, A., PODDUBNVI,

COUNTRY OF INFO-USSR

SOURCE--MAKROMOL. CHEM. 1970, 133, 111-18

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--CHEMICAL REACTION MECHANISM, CHEMICAL REACTION KINETICS, BUTACIENE, MOLECULAR WEIGHT, IODINE, ORGANDALUMINUM COMPOUND, TITANIUM CHLORIDE, POLYMERIZATION CATALYST

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1992/1615

STEP NO--SZ/0000/70/133/000/0111/0118

CIRC ACCESSION NO--APO112609

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

CIRC ACCESSION NO--APOLIZGO9

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. KINETICS OF HOMOGENEOUS BUTADIENE
POLYMN. INITIATED BY TII SUB2 CL SUBZ ISO, BU SUB3 AL WAS STUDIED AT
CONST. MONOMER CONCN. A REACTION MECHANISM INVOLYING FAST INITIATION
AND PROPAGATION OF LIVING CHAINS WITH REVERSIBLE DEACTIVATION OF THE
ACTIVE SITES WAS PROPOSED. THE NO. AND WE. AV. MOL. WIS. OF THE POLYMER
AT ANY MOMENT AFTER ESTABLISHING THE DEACTIVATION REACTIVATION EQUIL.
MERE CALCD. FACILITY: SYN. RUBBER RES. INST., LENINGRAD, USSR.

USSR

UDC 621.311.1.16.072.85

MUZYCHENKO, A. D.

"Balanced Operating Conditions of Star-Connected Resistances Connected to an Asymmetrical Multiphase Voltage System"

V sb. Probl. tekhn. elektrodinamiki (Problems of Technical Electrodynamics --collection of works), vyp. 24, Kiev, Naukova Dumka Press, 1970, pp 75-78 (from RZh-Elektrotekhnika i Energetika, No 4, Apr 71, Abstract No 4 Ye241)

Translation: The problem of balancing the operating conditions of the asymmetrical feed network arises when studying balancing and stabilizing devices. In such devices, the chokes and capacitor banks are star-connected with a single-phase load. Expressions are presented for special cases of feeding the three-prong star from an asymmetrical three-phase voltage system. There are 5 illustrations and a 6-entry bibliography. [Institute of Electrodynamics of the Ukrainian SSR Academy of Sciences, Kiev]

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

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USSR

UDC: 621.357.7

BOGOSLOVSKIY, V. V., TYUTINA, K. M., MUZYCHENKO, L. A., KUDRYAVTSEV, N. T.

"Optimization of the Process of Electrodeposition of Nickel-Antimony Alloy"

Moscow, Zashchita Metallov, Vol 9, No 3, Jul-Aug 73, pp 455-456.

Abstract: An experimental-statistical method is used to construct a mathematical model of the process of electrodeposition of shiney nickel-antimony alloy deposits with minimum internal stress. The optimization parameters selected were the diffuse-scattered light intensity and the internal stresses in the alloy, expressed in ocular microscope divisions. The experimental data, following statistical checking, were used to produce two equations to calculate the conditions of deposition of the nickel-antimony deposits with minimum internal stresses: NiCl₂·6H₂o 59 g/1; SbF₃ 3 g/1; NH₄Cl 21 g/1; NH₄F 41 g/1; $D_c = 0.5-6 \text{ a/dm}^2$; pli 4.5; temperature 70°; antimony anodes.

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USSR

UDC 771.537.61

PRUSS, P. Kh., Candidate of Sciences, MATSIYEVICH, L. V., IVANOV, A. M., MODEL', M. M., MCYCHENKOV, M. S., and SKACHKOVA, Ye. V.

"The Interference Resolvometer 'LIR-1'"

Leningrad, Optiko-Mekhanicheskaya Promyshlennost', No 9, Sep 72, pp 30-34

Abstract: The technical characteristics, operating principle, and design of the first industrial sample of a displayed automatic device, the laser interference resolvometer LIR-1, are described by reference to its optical schema and photographs of the control desk and principal blocks. The resolvometer was developed according to the technical assignment of the State Optical Institute by the Krasnogorsk Mechanical Plant for the determination of resolutions of photographic materials in the 440--2960 mm⁻¹ range. A laser of the LG-36A type (λ =6328 Å) is used as light source. The LIR-1 is a two-beam interferometer in which interference bands with sinusoidal distribution of brightness develop by interaction of two flat waves. It is designed for operation under laboratory conditions. Visual or diffraction rethods can be used for the evaluation of exposed and processed resolvograms. Tests of a series of high-resolution photofilms yielded a value of the resolving ability which can be characterized as R > 2700 mm⁻¹, because all frequency groups up to the limiting, were reproduced. Values of R for high-resolution films are presented. Four illustr., one table, twelve biblio, refs.

USSR

UDC 6191616-093

MUZYCHIN, S. I.

"Tocigenic Properties of Cl. perfringens Type A Variant in Mixed Cultures with E. Coli."

Minsk, Izvestiya Akademii Nauk ESSR, Seriya Sel'skokhozyaystvennykh Nauk, No 4, 1970, pp 118-121

Abstract: Studies of enterotoxemia of calves, showed that in most cases E. coli is isolated along with Cl. perfringens, type A. Therefore, the effect of different strains of E. coli on the toxigenic properties and growth of Cl. perfringens type A was investigated. Cl. perfringens and E. coli strains obtained from calves sick or dying from enterotoxemia were used in the study, along with type sercpathogenic strains of E. coli kept in the division museum. In investigating the effect of E. coli and its vital products on growth and toxin formation of Cl. perfringens in vitro and in mice, these results were obtained. The seropathogenic E. coli strains used in the experiments (No 055, 026, 09, and the local unstandardized strain No 117 and their vital products had no substantial effect on the growth and toxin formation of Cl. perfringens type A. Study of the effecy on rabbits of Cl. perfringens type A toxin obtained in cultures grown together with E. 1/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

USSR

MUZYCHIN, S. I., Izvestiya Akademii Nauk BSSR, Seriya Sel'skokhozyaystvennykh Nauk, No 4, 1970, pp 118-121

coli also revealed data confirming the conclusion that E. coli strains used in the experiment have no effect on the toxigenic properties of Cl. per-

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USSR

KORSUNSKIY, M. I.; GENKIN, Ya. Ye.; MUZYCHUK, R. V.

"Multiple Character of the Spectra of the Characteristic Electron Energy Loss in Transition Metals of the Yttrium-Palladium Series"

Alma-Ata, Izvestiya Akademii Nauk Kazakhskoy SSR: Seriya Fiziko-Matematicheskaya; November-December, 1972; pp 6-13

ABSTRACT: The shapes of the spectra of the characteristic electron energy losses during reflection from large samples of metals of the yttrium-palladium series were determined. The calculations were made on the assumption that the most probable types of characteristic electron energy loss in the kilovolt range are one type of energy loss by surface excitation and three by internal excitation. The parameters of the first inelastic peaks of all four types of characteristic electron energy loss for which the calculated spectra agree satisfactorily with the experimental ones were determined.

The energy losses at the surface of a sample are related to the excitation of surface plasmons. The first and second types of internal losses are related to the excitations of the plasma of the collective electrons and collective excitations of the locally bound electrons respectively. The question of the authenticity and nature of the third type of internal loss is discussed.

The article includes two figures and two tables. There are 16 references.

USSR

UDC: 681.3

MIZYCHUK, V. T., YAREMENKO, V. V.

"Circuit Realization of Operators in the Specialized Language TEKHNOL"

V sb. Sredstva tekhn. kibernet. (Facilities of Technical Cybernetics-collection of works), Kiev, "Tekhnika", 1970, pp 3-13 (from RZh-Kibernetika, No 9, Sep 71, Abstract No 9V547)

Translation: The authors consider the operations in a machine language for a special computer designed to solve problems of technological design. Taking the example of tabular operations as a basis, the authors consider the problem of structural realization of the operations through the method of formal synthesis of an automaton according to a microprogram. On the basis of the resultant microprogram, the functions of the outputs and the functions of the excitation are determined and used in designing the functional circuit of the automaton. V. Mikheyev.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

USSR

UDC: 681.3.06:51

MUZYCHUK, V. T.

"On the Problem of Programming Automation in Automated Technological Design"

V sb. Sredstva tekhn. kibernet. (Facilities of Technical Cybernetics--collection of works), Kiev, "Tekhnika", 1970, pp 26-30 (from RZh-Kibernetika, No 9, Sep 71, Abstract No 9V587)

Translation: The author considers possible methods of translation from the specialized language TEKHNOL. The method of indirect translation using the TA-2 translator is selected as economically advantageous, and also from the standpoint of enabling rapid introduction of this newly developed specialized algorithmic language. The fundamental operators of the TEKHNOL language are described as procedures in the translator input language. V. Mikheyev.

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USSR



VDC 621.396.62.089.52

FAL'KOVICH, S. Ye., MUZYKA, Z. N.

"Sensitivity of Radio Receivers with Transistorized Amplifiers"

Chuvsvitel'nost' radiopriyemnykh ustroystv s tranzistornymi usilitelyami (cf. English above), "Energiya", 1970, 127 pp, ill. 35 k. (from RZh-Radiotekhnika, No 10, Oct 70, Abstract No 10D1 K)

Translation: Sources of noise in a transistor are considered and its equivalent noise circuit is constructed. Computational expressions are derived for determining the noise coefficient for various methods of transistor connection, and the noise coefficient is studied as a function of frequency, internal feedback and matching conditions. Computational examples are given as well as graphs of the noise coefficient as a function of the various parameters, and also the parameters of some high-frequency transistors as a function of frequency and operating conditions.

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USSR

unc 616.5-003.6.05-085.849.19-091

VISHNEVSKIY, A. A., Jr., KHARITON, A. S., MUZYKANT, L. I., and SHERPUTOVSKAYA, K. Ye., Moscow, Department of Pathological Anatomy and Department of Pulmonery Surgery, Institute of Surgery imeni A. V. Vishnevskiy, Academy of Medical Sciences USSR

"Morphological Changes in the Skin After Irradiation With a Pulsed Laser to Remove Tattooing"

Moscow, Arkhiv Patologii, Vol 35, No 4, 1973, pp 59-63

Abstract: A pulsed neodymium laser (wave length 1.06 A and energy density 80-120 j/cm2) was used to remove tattoos in 113 persons aged 18 to 60. The irradiated skin was covered with a boric ointment dressing until the pigmented tissue was completely lysed and rejected (5-20 days) and then with Vishnevskiy's ointment dressing to promote granulation (3-5 days). The final healing took place under the naturally formed scab. Biopsy samples of pigmented with adjacent normal skin were taken prior to and at various periods up to 60 days after irradiation. Morphological and histochemical examinations of the samples revealed a mild inflarmatory reaction, frequent absence of demarcation boundaries, infiltration by lymphocytes and hystiocytes, and a moderate development of granulation tissue. Epithelialization proceeded mainly from the edges of the wound, with new epithelial cells containing large glycogen granules and a

- 76 -

USSR

VISHNEVSKIY, A. A. Jr., et al., Arkhiv Patologii, Vol 35, No 4, 1973, pp 59-63

considerable amount of mucopolysaccharides. In 3-4 weeks, the wound was healed completely (approximately the same period as with clear surgical wounds), and fine, smooth, pink, mobile scar tissue of the contour of the tattoo was formed. The underlying young connective tissue was rich in acid mucopolysaccharides but contained no elastic fibers. In 1 year, the scar became quite unnoticeable.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

UNCLASSIFIED PROCESSING DATE--04DEC70

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TITLE--HYPOTHALAMUS HYPOPHYSIS ADRENAL SYSTEMS IN BURN SHOCK. LITERATURE

SURVEY -U-AUTHOR-(02)-MUZYKANT, L.I., GORDEYEV, V.F.

COUNTRY OF INFO--USSR

SOURCE--EKSP KHIR ANESTEZIOL 14(4): 42-47

DATE PUBLISHED----70

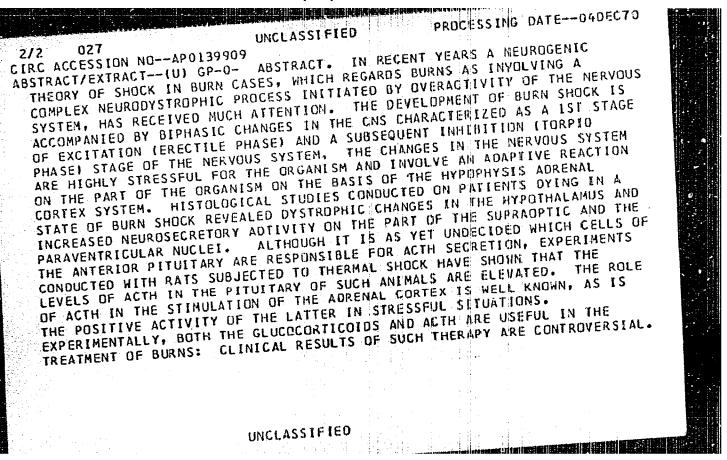
SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--BURN COMPLICATION, TRAUMATIC SHOCK, NERVOUS SYSTEM

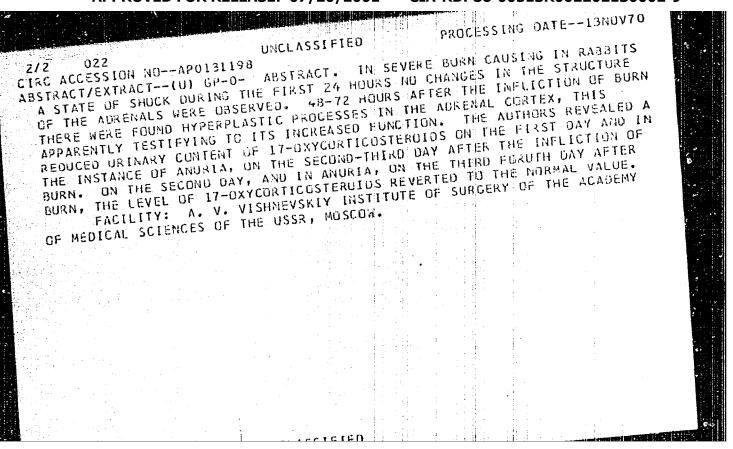
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0481/69/014/004/0042/0047 PROXY FICHE NO----F070/605007/E09 STEP NO---UR/0481/69/014/004/0042/0047

CIRC ACCESSION NO--APO139909 UNCLASSIFIED



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NR 6, PP 113-116 OATE PUBLISHED70				
DATE PUBLISHED			•	
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SUBJECT AREAS—BIULOGICAL AND TOPIC TAGS—THERMAL BURN, RAN	MEDICAL SCIEN	nomERP1	ASIA, URINE,	
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TOPIC TAGS-THERMAL BONNING CORTICOSTEROID, EXCRETION				
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PROCESSING DATE--18SEP70 TITLE--THE OXIDATION OF POTASSIUM HEXACHLOROIRIDATE (111) WITH PERIODIC

ACID -U-AUTHOR--MUZYKANTOVA, Z.A.

COUNTRY OF INFO--USSR

SOURCE-IZVESTIYA SIBIRSKOGO OTDELENIYA AKSDEMII NAUK SSSR, NO 2 SERIYA KHIMICHESKIKH NAUK, 1970, NR 1, PP 45-51 DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--IRIDIUM COMPOUND, CHLORIDE, PERCHLORATE, CHEMICAL REACTION RATE, ACTIVATION ENERGY, POTASSIUM COMPOUND, OXIDATION

CENTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1984/1608

STEP NO--UR/0289/70/000/001/0045/0051

CIRC ACCESSION NO--APO100218

UNCLASSIFIED

PROCESSING DATE--18SEP70 UNCLASSIFIED ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE KINETICS OF THE REACTION (IRCL 027 CIRC ACCESSION NO--APO100218 SUB6) PRIMESNEGATIVE PLUS H SUB5 TO SUB6 PLUS H PLUS YTELDS (TRCL SUB6) PRIMEZNEGATIVE PLUS 10 SUB3 PLUS 3H SUB2 O HAS BEEN STUDIED IN AQUEOUS PERCHLORATE SOLUTIONS WITHIN THE TEMPERATURE RANGE 20-35DEGREESC. THE REACTION RATE DEPENDS ON THE CONCENTRATIONS OF H SUB5 10 SUB6. CL MINUS AND H PLUS IONS. THE RESULTS SUGGEST THAT H SUBS IN SUB6 REACTS WITH FREE CHLORIDE IONS TO FORM CHLORINE THAT RAPIDLY CONVERTS (IRCL SUB6) PRIMEDNEGATIVE TO (IRCL SUB6) PRIMEZNEGATIVE. THE ACTIVATION ENERGY AND LOGARITHM OF PRE EXPONENTIAL FACTOR IN THE ARRHENIUS EQUATION ARE ABOUT 18,5 PLUS OR MINUS L.O KCAL-MOL AND 12,1 PLUS OR MINUS 0.8, RESPECTIVELY. UNCLASSIFIED

Theoretical Physics

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MUZYLEV, YE. L., Mcscow State University

"Radiation of an Atom Caused by a Fast-Moving Charged Particle"

Yerevan, Izvestiya Akademii Nauk Armyanskoy SSR, Vol 7, No 1, 1972, pp 11-17

Abstract: The article considers the question of the radiation of a single atom induced by a fast charged particle for the purpose of estimating the dependence of the frequency shift $A\omega = \omega - \omega_o$ on the velocity of the passing particle. The Furry representation is used to describe the process considered, with the electromagnetic field of the particle given by the classical potentials of a uniformly moving charge and the interaction with radiation described within the framework of quantum electrodynamics. The level shifts are calculated according to perturbation theory. Time integrals are calculated approximately as a function of effective interaction time. The results indicate the presence of level shifts during forced transitions and the approximate dependence of these shifts on the velocity of the charged particle. Shifts calculated for velocities close to the velocity of light

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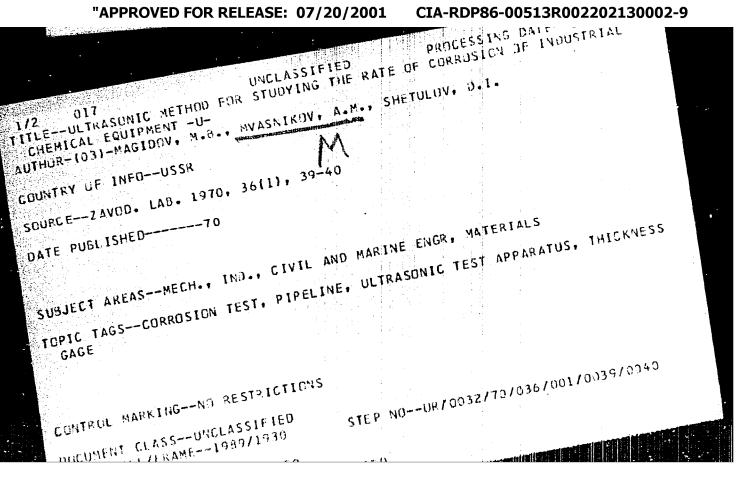
MUZYLEV, YE. L., Izvestiya Akademii Nauk Armyanskoy SSR, Vol 7, Ko 1, 1972, pp 11-17

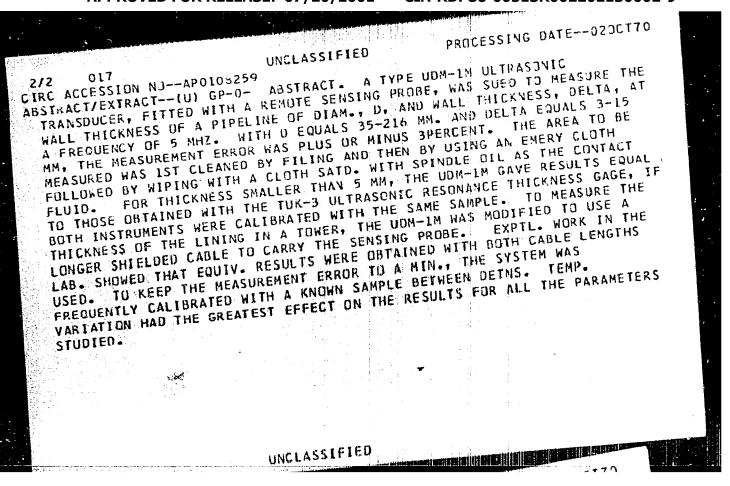
have the same order (maximum an order of magnitude less) as the Lamb shift. This indicates that it is possible in principle to use the spectroscopic method to determine the energy of fast-moving charged particles from the frequency shifts of stimulated radiation, if the velocity of the particle is not very close to the velocity of light.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

87 -





USSR

UDC 539.3

KOSHELEVA, T. I., MYACHENKOV, V. I., Moscow

"Stability of Toroidal Shells Under Local Loads"

Kiev, Prikladnaya Mekhanika, Vol VII, No 4, 1971, pp 23-27

Abstract: The finite-difference method was used to obtain the solution of the problem of stability of toroidal shells under the effect of local loads: a concentrated annular force uniformly distributed with respect to the large circumference of the torus, an edge moment uniformly distributed with respect to the large circumference, a shell heated to a temperature and fastened by a quite rigid "cold" frame. The subcritical state is determined from the solution of the boundary effect equation. Formulas are presented for finding the critical value of the local loads, and the effect of the subcritical distortion of the generatrix of the shell on their magnitude is investigated.

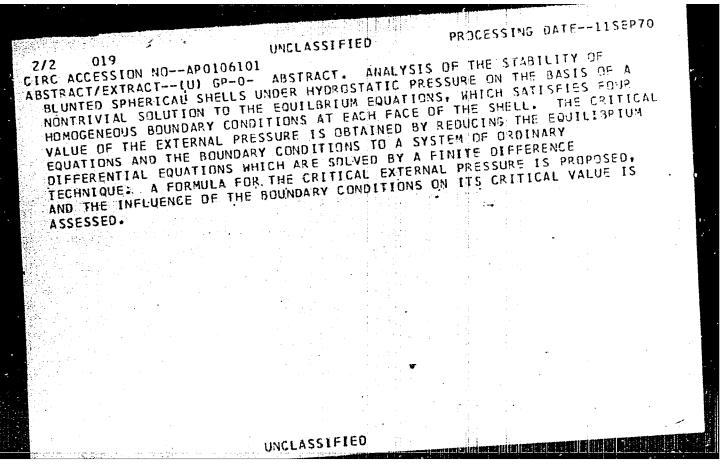
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PROCESSING DATE--11SEP70 TITLE-STABILITY OF BLUNTED SPHERICAL SHELLS LOADED BY HYDROSTATIC AUTHOR-GRIGORYEV, I.V., MYACHENKOV, V.I SOURCE--PRIKLADNAIA MEKHANIKA, VOL. 6, FEB. 1970, P. 18-21 COUNTRY OF INFO--USSR DATE PUBLISHED --- FEB 70 SUBJECT AREAS--MECH., IND., CIVIL AND MARINE ENGR TOPIC TAGS--SPHERIC SHELL STRUCTURE, HYDROSTATIC PRESSURE, GRDINARY DIFFERENTIAL EQUATION CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0198/70/006/000/0018/0021 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/1324 CIRC ACCESSION NO--APO106101 UNCLASSIFIED



Acc AP0046170_

Abstracting Service: 5/70 Ref. Code: INTERNAT. AEROSPACE ABST. UR0198

A70-23287 # Stability of cylindrical shells under the action of axisymmetric transverse pressure (Listoichiyost tailindricheskith obolochek při deistvil osasimmetrichnogo poperechnogo davlaniia).

V. I. Mechenkov. Prikladnala Mekhanika, vol. 6, Jan. 1970, p. 27-33.

28 refs: In Rosstan.

Analysis of the results of a solution to the stability problem of an elastic isotropic circular cylindrical shell subjected to uniform pressure and to pressure varying along the generating line. The critical transverse load is calculated with the aid of a computer program in which the neutral equilibrium equations and the boundary conditions are reduced to a system of ordinary differential equations, which is solved by a finite-difference technique. The influence of the end boundary conditions and moments of the subcritical state on the critical load is examined.

V.P.

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IDC: 681.326.3

MYACHEV, A. A., SHUVALOV, L. G.

"A Converter for Coupling a Device for Control of External Objects to a Channel"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 4, Feb 71, Author's Certificate No 292158, Division G, filed 27 Aug 69, published 6 Jan 71, p 131

Translation: This Author's Certificate introduces a converter for coupling a device for controlling external objects to a channel. The converter contains a control unit, a command register, data register, "subscriber information" flip-flop, a diode for setting and resetting the "subscriber information" flip-flop, and a delay circuit. As a distinguishing feature of the mation" flip-flop, and a delay circuit. As a distinguishing feature of the patent, the throughput capacity and flexibility of the system are increased patent, the throughput capacity and flexibility of the system are increased patent, an operation code decoder, an accelerated operating mode flip-flop, by adding an operating mode flip-flop, a second data register, a second delay a duplex operating mode flip-flop, a second data register, a second delay circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuit, diodes, merging circuits for shaping the "subscriber information" circuits for shaping the "subscriber information" circuits for shaping the "subscriber informat

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USSR

MYACHEV, A. A., SHUVALOV, L. G., USSR Author's Certificate No 292158

unit and the input of the first merging circuit. The output of this merging circuit is connected through the diode for setting the "subscriber information" flip-flop to the first delay circuit. The output of the accelerated mode flip-flop is connected to the input of the control unit and the diodes mode flip-flop is connected to the input of the control unit and the diodes for resetting the "subscriber information" flip-flop. The outputs of these diodes are connected thorugh the second merging circuit to the "subscriber information" flip-flop. The output of the first delay circuit is connected to the first diode for resetting the "subscriber information" flip-flop. The first and second data registers are connected to the control unit and to the information lines.

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MAGNESIUM -U
TITLE--SCATTERING OF 14.2-MEV NEUTRONS ON MAGNESIUM -U
AUTHOR-(02)-NEFEDOV, V.V., HYACHKOVA, S.A.

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK SSSR, SER. FIZ. 1970, 34(1), 179-81

DATE PUBLISHED----70

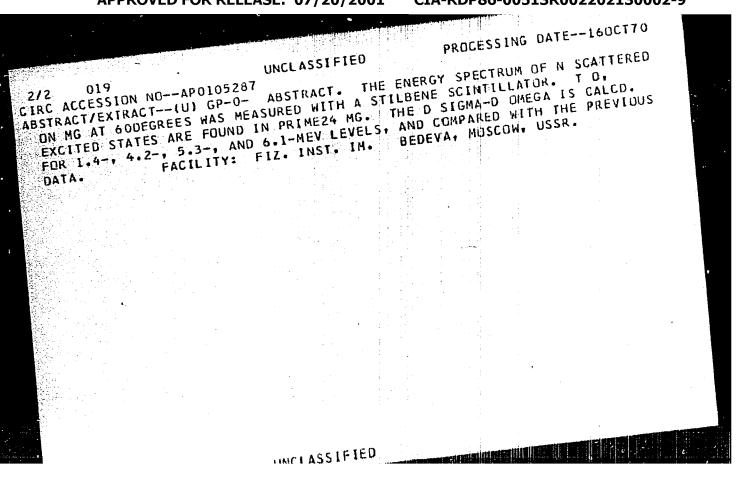
SUBJECT AREAS--PHYSICS, NUCLEAR SCIENCE AND TECHNOLOGY
TOPIC TAGS--NEUTRON SCATTERING, FAST NEUTRON, NEUTRON ENERGY DISTRIBUTION,
AGNESIUM ISOTOPE
DIFFERENTIAL CROSS SECTION, AGNESIUM ISOTOPE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/0211

STEP NO--UR/0048/70/034/001/0179/0181

CIRC ACCESSION NO--APO10528/
UNCLASSIFIED





STOLOV, A. M., TITOV, V. A., VODOP'YANOV, F. A., KUZ'MIN, A. A., KUZ'-MIN, V. F., MINTS, A. L., RUBCHINSKIY, S. M., UVAROV, V. A., GUTNER, B. M., ZALMANZON, V. B., PROKOP'YEV, A. I., and TEMKIN, A. S.

"Some Results of the Overall Adjustment and Start-up of the 70-Gev Proton Synchrotron of the Institute of High-energy Physics"

Moscow, Atomnaya Energiya, Vol 28, No 2, Feb 70, pp 132-138

Abstract: The physical part of the plan for the 70-Gev proton synchrotron was executed by the Institute of Theoretical and Experimental Physics. The electromagnet with feed system, the vacuum chamber, and the injection devices were developed at the Scientific Research Institute of Electrophysical Apparatus imeni D. V. Yefremov. The radioelectronic systems for acceleration process control and generation of

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

ADO, YU. M., et al., Atomnaya Energiya, Vol 28, No 2, Feb 70, pp 132-

the accelerating field, as well as the radiotechnical measurement and beam observation systems, were developed by the Radiotechnical Institute of the Academy of Sciences USSR. "Tyazhpromelektroproyekt" [State Planning Institute for the Planning of Electrical Equipment for Heavy Industryl designed the general-purpose electrotechnical devices and cable connections. The plan for the construction complex of the accelerator was developed by the State All-Union Planning In-The construction of the accelerator was under the general supervision of the State Committee for the Use of Atomic Energy USSR. The adjustment of individual systems and the overall adjustment and start-up of the accelerator were carried out by the Institute of High-energy Physics and the developers of the accelerator systems. The basic beam work was done by the Institute of High-energy Physics with the participation of the Radiotechnical Institute. The construction of the accelerator was begun in 1960, and all the basic construction and assembly work was completed at the beginning of

2/4

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

ADO, YU. M., et al., Atomnaya Energiya, Vol 28, No 2, Feb 70, pp 132-138

1967. At the initial stage of construction, before the formation of the Institute of High-energy Physics in 1963, the work was coordinated by the Institute of Theoretical and Experimental Physics. The linear accelerator injector was started on 28 July 1967, the operation of the individual systems was adjusted by September 1967, and the physical start-up of the accelerator was accomplished on 14 October.

A description is given of the work done to adjust the annular electromagnet (including the electromagnet cooling and feed systems), the injection system (consisting of matching channel and injection detice), the vacuum system, the radioelectronic system (including the vice), the vacuum system, the radioelectronic system (including the accelerating field generation system, the acceleration process control system, and the radiotechnical measurement system), and the beam observation system (which provides for beam observation in the first revolution and during acceleration). In the physical start-up of the accelerator the main efforts were directed towards obtaining accelerated protons of the planned energy, and the problem of obtaining high

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

USSR

ADO, YU. M., et al., Atomnaya Energiya, Vol 28, No 2, Feb 70, pp 132-138

intensity of the accelerated proton was not raised.

The article gives a listing of the principal parameters of the proton synchrotron, as well as a schedule of the individual stages of the start-up of the accelerator. Photographs include a view of the part of the ring hall in the beam injection area and a general view of the hall of ignitron rectifiers.

4/4

Acc. Nr #0038580

Abstracting Service: 70 CHEMICAL ABST.

Ref. Code

ide with sudium maleate. Myagchenkov V. A. Kuren ov. V. F.; Kurnetsov, E. V.; Frenket, S. Ya. (S. M. Kirov Chem. Technol. Inst., Kazan, USSR). Eur. Polym. J. 1970, 6(1), 63-8 (Eng). Compn. distribution curves were obtained for 4 acrylamide-Namaleate copolymers. Efficient compn. fractionation was obtained partially because of the presence of the ionic groups in the copolymer macromols. The compn. distribution curves obtained under non-isoionic conditions and in a system contg. 15% NaCl indicated that the copolymn. under non-isoionic conditions is anomalous. The addn. of NaCl stabilizes the relative reactivities of the comonomers.

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UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--SOME PECULIARITIES IN INSOLUBLE COLLAGEN CONTENT OF RAT LUNGS IN
NORMAL ANIMAL AND AT EXPERIMENTAL SILICOSIS -UAUTHOR-(02)-VASILYEVA, G.N., MYAGKAYA, G.L.

COUNTRY OF INFO--USSR

SOURCE--VOPROSY MEDITSINSKOY KHIMII, 1970, VOL 16, NR 3, PP 286-289

DATE PUBLISHED---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--COLLAGEN, LUNG, PULMONARY DISEASE, SILICA, CHEMICAL ANALYSIS, AMINO ACID, CARBOHYDRATE

CONTROL MARKING--NO RESTRICTIONS'

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0148

STEP NO--UR/0301/70/016/003/0286/0289

CIRC ACCESSION NO--AP0120848

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

PROCESSING DATE--230CT70 UNCLASSIFIED 023 2/2 CIRC ACCESSION NO--APO120848 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE DATA ARE PRESENTED ON STUDY OF INSOLUBLE COLLAGEN OBTAINED FROM LUNG TISSUE OF HEALTHY RATS AND FROM THOSE WITH EXPERIMENTAL SILICOSIS. THE CONTENT OF SOME AMINO ACID (HYDROXYPROLINE, PROLINE, TYROSINE) AND CARBOHYDRATES (URONIC ACID AND HEXOSES) IN INSOLUBLE COLLAGEN WAS DETERMINED. IT WAS ESTABLISHED THAT LUNG COLLAGEN OF HEALTHY RATS AS WELL AS THOSE WITH EXPERIMENTAL SILICOSIS DOES NOT DIFFER FROM COLLAGEN IN OTHER TISSUES, BUT HAS THE LESS PROLINE CONTENT AS COMPARED TO THE COLLAGEN IN OTHER TISSUES OF DIFFERENT ANIMALS. THE CHARACTERISTIC FEATURE OF INSOLUBLE LUNG COLLAGEN OF RATS IS THE HIGH HEXOSES CONTENT (AT AVERAGE 2,5PERCENT). HEXOSES CONTENT IN INSOLUBLE LUNG COLLAGEN AT LATER PERIODS OF SILICOSIS FACILITY: INSTITUTE OF LABOUR DEVELOPMENT WAS DIMINISHED. HYGIENE AND PROFESSIONAL DISEASES USSR ACADEMY OF MEDICAL SCIENCES. INSTITUTE OF RHEUMATISM USSR ACADEMY OF MEDICAL SCIENCES, MOSCOW. UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

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USSR

UDC 616.24-003.66-092.9-008.939.629

VASILIYEVA, G. N. and MYAGKAYA, G. L., Institute of Industrial Hygiene and Occupational Diseases, Academy of Sciences USSR

"Some Characteristics of Insoluble Collagen in the Lungs of Healthy and Silicotic Rats"

Moscow, Voprosy Meditsinskoy Khimii, No 3, 1970, pp 286-289

Abstract: Experiments on rats showed that the dry weight of the lungs in the early stages (1 month) of silicosis was higher than in healthy unimals, and that it was three times higher after 13 months. However, the insoluble residue of lung tissue obtained by exhaustive extraction of soluble proteins from lung homogenates was normal. The amount of hydroxyproline, tyrosine, and proline in insoluble lung collagen was the same in both control and experimental animals. A distinguishing feature of insoluble collagen in rat lung is the high hexose content, but it decreased somewhat in the later stages of silicosis (6-1/2 months) to 2.2% (from an original 2.5%).

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

UDC 547.341.07

KAABAK, L. V., VARSHAVSKIY, S. L., MYAGKAYA, H. YE., KOSHECHKINA, L. A., KALITINA, M. I., and KABACHNIK, M. I.

"Process for the Preparation of Tri-Secondary-Alkylphosphine Oxide"

USSR Author's Certificate No 362024. Filed 18 Jan 71, published 13 Dec 71 (from Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 2, 1873, p 54)

Translation: This process is improved in that white phosphorous reacts with secondary halide alkyls and magnesium or zinc while being heated, with the subsequent treatment of the reaction mixture with alkali. The desired product can be separated by known methods.

2. The process in number 1 is improved in that the nixture is heated to a temperature of 120-210°C.

3. The processes described in number 1 and 2 are improved in that the treatment of the reaction mixture with alkali is carried out at 270°C.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

USSR

UDC 577.4

MARASANOV, V. V., MARASANOVA, T. F., and MYAGKAYA, V. N.

"Mathematical Models of the Differential Diagnosis of Diseases"

Matematicheskiye modeli differentsial'noy diagnostiki zabolevaniy (cf. English above), Kishinev, "Shtiintsa," 1973, 62 pp, 111., 35 k. (from RZh-Matematika, No 6, Jun 73, Abstract No 6V733)

Translation: The book considers questions of algorithmizing the process of making a medical diagnosis, using the example of the early differential diagnosis of influenza and a group of influenza-like diseases, as well as models of symptom and syndrome diagnosis and models which take into consideration the interrelationship between control systems in the organism. The proposed mathematical diagnosis-making models were checked with the use of a digital computer on a large group of patients. The algorithms and the results of the check are given.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

MARASANOV, V. V., MARASANOV, T. F., MYAGKAYA, V. N.

"Mathematical Models for Differential Diagnosis of Diseases"

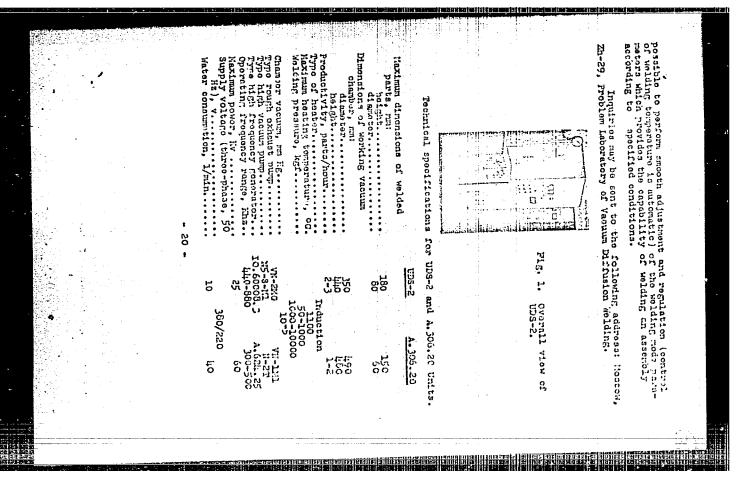
Matematicheskiye Modely Differentsial'noy Diagnostiki Zabolevaniy [English Version Above], Kishilev, Shtiintsa Press, 1973, 62 pages (Translated from Referativnyy Zhurnal Kibernetika, No. 6, 1973, Abstract No. 6V733K).

Translation: Problems of algorithmization of the process of medical diagnosis are studied on the example of early differential diagnosis of influenza and the group of influenza-like accompanying diseases, as well as a model of symptomatic and syndrome diagnosis and a model considering the interrelationship of systems of regulation in the organism. The mathematical models suggested for diagnosis are tested using a digital computer on a large group of patients. Algorithms and results of their testing are presented.

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	Unit UD3-2 (see Fig. 1) is easier to operate that the first the action of the party process of the first tendency and panel. Productivity of the unit onsed by means of improving the system of addalling in the bottom of the housing and walding chubban supports the bottom of the housing and walding chubban supports. The control apparatus and panel of the unit raises it.	- 1	Production of units UDS-2 and A. 306.20 has been restarred to the diffusion welding of parts and a 306.20 has been restarred and alloys (steel-uteel, copper-copper, steel-copper, steel-copper, steel-copper, steel-copper, steel-copper, steel-copper, steel-copper, steel-copper, steel-copper, commontals (copper-certain, kovar-class, steel-graphice, cte.). They make it possible to produce weld-distints of 400 different commosistions which are identical to their initial state for all the basio characteristics (strength, ductility, thereal state stability and electrical conductivity). On these which seems possible to weld parts without restriction of thickness companions on plane, contoal, cylindrical and relief surfaces.	yo UNIT of Engineering Sciences G. V. Kanyunkhuy and impancers if Lalenny, forcesov Folytechnical Institute; Naskon, top, Rassian, No. 12, 1872, pp. 35-56]	ODC 621.791:539.378.3.37	JA23 55.291 22 62 35 210001 02 630



UNCLASSIFIED PROCESSING DATE-+20NOV70 TITLE--CPTIMIZATION OF BASIC PARAMETERS OF THERMAL DESALTING PLANTS WITH

ADIABATIC EVAPORATION -U-

AUTHUR-(03)-KCHNEICHEV, A.I., IZVEKOV, A.V., MYAGKOV, A.A. SUSTRIAL PRESIDENT CONTRACTOR OF THE PROPERTY OF THE PROPERTY

EGENTRY OF INFO-USSR

SCURCE--DESALINATION: 7: 179-86[FE8 1970]

DATE PUBLISHED --- FEB70

SUBJECT AREAS-CHEMISTRY, MECH., IND., CIVIL AND MARINE ENGR

TUPIC TAGS-DESALINATION, ADIABATIC PROCESS, EVAPORATION, PARAMETER, COMPUTER CALCULATION

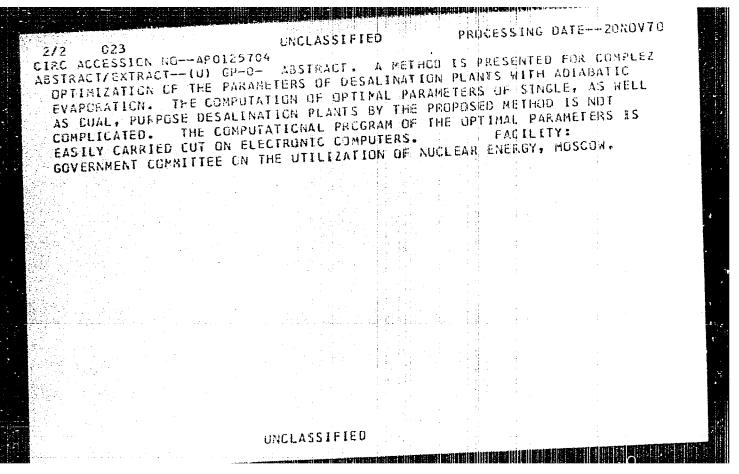
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/2120 STEP ND--NE/0000/10/007/000/0179/0186

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CIRC ACCESSION NU--APOL25704

UNCERSSIFIED.



PROCESSING DATE--18SEP70 TITLE-THE INPORTANCE OF CONTRAST ENEMA IN INVAGINATION OF THE LARGE AUTHOR-(02)-MAILYAN, A.G., MYAGKOV. A.V. COUNTRY OF INFO--USSR SOURCE--KHIRURGIYA, 1970, NR 3, PP 91-94 DATE PUBLISHED ---- 70 SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--LARGE INTESTINE, DIAGNOSIS, X RAY CONTRAST MEDIUM CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0531/70/000/003/0001/0094 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1983/1325 CIRC ACCESSION NO--APO 054209 UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

UNCLASSIFIED

PROCESSING DATE—108EP70

2/2 016

CIRC ACCESSION ND—APO0054209

ABSTRACT/EXTRACT—(U) GP—0— ABSTRACT. THE DIAGNOSIS GE INVAGINATION OF THE LARGE INTESTINE DURING THE FIRST HOURS OF THE DISEASE IS VERY THE LARGE INTESTINE DIFFICULT. CONTRAST RETROGRADE INVESTIGATION OF THE LARGE INTESTINE HELPS TO SOLVE A NUMBER OF PROBLEMS WHICH INFLUENCE THE CHOICE OF THE HEAD OF THERAPY. IN MODELITY OF THE HEAD OF THE INVAGINATION DIRECTLY UNDER THE SCREEN IT IS EXPEDIENT TO ATTEMPT DISINVAGINATION DIRECTLY UNDER THE SCREEN WITH THE AID OF A CONTRAST ENEMA. IN PROPER EMPLOYMENT THE PROPOSED TECHNIQUE IS SAFE AND IT SHOULD BE WIDELY USED.

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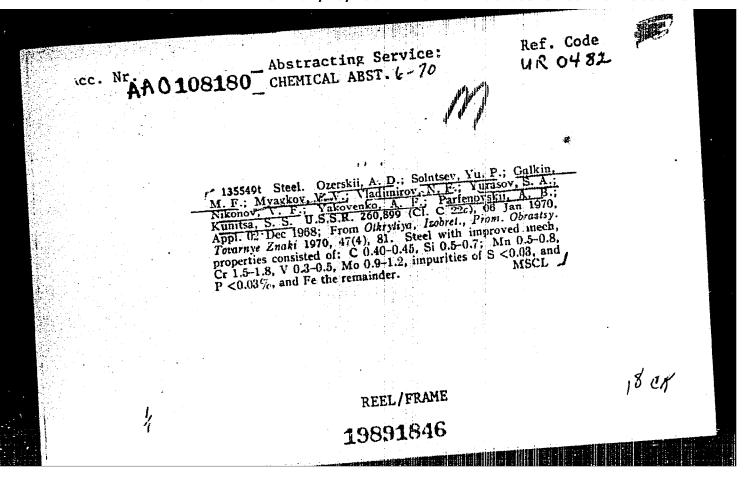
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PROCESSING DATE—108EFIND DIFFERENCE INVAGINATION OF THE DIFFERENCE INVAGINATION OF THE CHOICE OF THE METAL THE SCREEN IN PROPER EMPLOYMENT THE PROPOSED WITH THE AID OF A CONTRAST ENEMA. IN PROPER EMPLOYMENT THE PROPOSED TECHNIQUE IS SAFE AND IT SHOULD BE WIDELY USED.

"APPROVED FOR RELEASE: 07/20/2001

CIA-RDP86-00513R002202130002-9



UNCLASSIFIED PROCESSING DATE--04DEC/O
UNCLASSIFIED PROCESSING DATE--04DEC/O
TITLE--PREPARATION AND STUDY OF COMPLEXES OF OSMIUM, II, WITH MOLECULAR
NITROGEN -U-

NITROGEN -U-AUTHOR-(03)-BORODKO, YU.G., KOZUB, G.I., MYAGKOV, YU.P.

COUNTRY OF INFO--USSR

SOURCE-ZH. FIZ. KHIM. 1970, 44(5), 1153-7

DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--OSMIUM COMPOUND, COMPLEX COMPOUND, NITROGEN, IR SPECTRUM

CONTROL MARKING--NO RESTRICTIONS

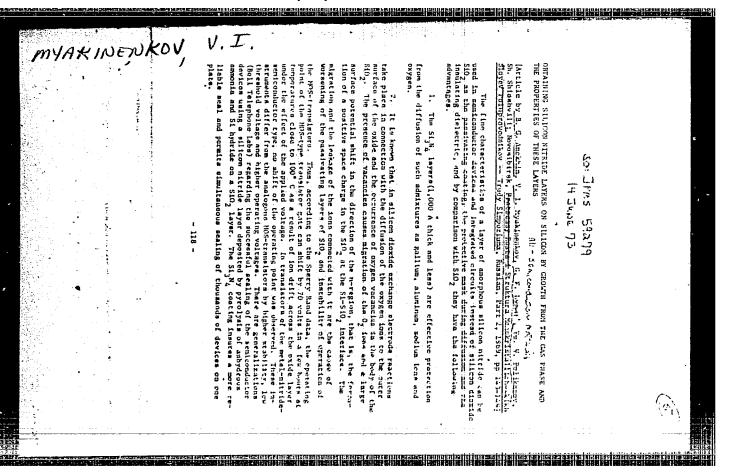
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3008/0886

STEP NO--UR/0076/70/044/005/1153/1157

CIRC ACCESSION NO--APO137914

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--04DEC70 2/2 019 CIRC ACCESSION NO--AP0137914 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. AMMINE COMPLEXES OF OS(11) CONTG. MOL. N IN THE INNER COORDINATION SPHERE OF OS ARE FORMED UPON THE REACTION OF HYDRAZINE HYDRATE WITH KISUBZ OSCL SUB6, OSCL SUB4, OSOHCL SUB3, AND OTHER COMPOS. OF OS IN AQ. SOLN. THE IR SPECTRA INDICATE THAT THE CATION (OSN SUB2(NH SUB3) SUB5) PRIMEZ POSITIVE BELONGS TO THE C SUB4V SYMMETRY GROUP, AND THE N'SUB2 MOLT IS LOCATED IN A LINEAR POSITION COMPARED TO THE OS. THE SPECTRAL FREQUENCIES OF ISOTROPIC SUBSTITUTED COMPOS., (OS PRIMEIS N SUB2(PRIMEIS NH SUB3) SUB5)X SUB2 AND (OSN SUB2(ND SUB3) SUB5) X SUB2+ ARE GIVEN. THE VALENCE VIBRATION OF THE N:N BOND IS CHARACTERIZED BY ABSORPTION IN THE 2012-34 CM PRIME NEGATIVEL RANGE AND THE OS,N SUB2 BOND IN THE 500-18 CM PRIME NEGATIVEL RANGE. SPLITTING OF THE 2012 CM PRIME NEGATIVEL BAND INTO A SERIES OF COMPONENTS IS EXPLAINED BY RESONANCE INTERACTION OF THE COSN SUBZENH SUB31 SUB51X SUB2 MOL. IN THE ELEMENTARY UNIT CELL OF THE CRYSTAL. FACILITY: FILIAL INST. KHIM. FIZ., CHERNOGOLOVKA, USSR. organisa diversimante i inivizi da ina rentermonta i mandrini (e) i na deveni di bandia e con il del bina da d La contra da distribuita de constitución de la constitución de la contra de la constitución de la constitución



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UDC 621.396.677(02)

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ARDAB YEVSKIY, A. I., VOLKOV, O. A., VOSKRESENSKIY, D. I., GOSTYUKHIN, V. L., GRANOVSKAYA, R. A., GRINEVA, K. I., KRITSYN, V. A., MYAKISHEV, B. YA., FILIPPOV, V. S., CHEBYSHEV, V. V.

"Microwave Antennas and Devices. Calculation and Design of Antenna Arrays and their Radiating Elements. Textbook for Students at the Radiotechnical Specialized Institions of Higher Learning"

Antenny i ustroystva SVCh. Raschet i proyektirovaniye antennykh reshetok i ikh izluchayushchikh elementov. Uchebn. posobiye dlya stud. radiotekhn. spets. vyzov (cf. English above), Moscow, Soviet Radio, 1972, 320 pp, ill., 75 k. (from RZh-Radiotekhnika, No 6, Jun 72, Abstract No 5B32K)

Translation: Methods of calculating the basic parameters of antenna arrays with electric rocking of the radiation pattern and frequency and commutation methods of controlling the radiation pattern are discussed. A study is made of the structure of the optimal arrays with Dolf-Chebyshev distribution, the design of irised-wave guide and horn arrays and also methods of calculating the array elements: dielectric, rod, spiral, horn and director antennas.

1/1

UDC 615.616.24-003.656

DINKELIS, S. S., KRIKUNOV, G. N., KIRILYUS, Z. YE., KONDRASHOVA, M. YA., MYAKISHEV, I. A., POLYANSKAYA, L. A.

"Significance of the Petrographic Composition and Degree of Oxidation of Coal Dust When Evaluating It In Anthracosis Danger"

Nauch. tr. Irkutsk. med. in-t (Scientific Works of the Irkutsk Medical Institute), 1972, vyp 110, pp 39-40 (from RZh--Farmakolo-giya. Khimioterapevticheskiye Sredstva. Toksikologiya, No 3, Mar 73, Abstract No 3.54.889)

Translation: Three specimens of coal dust of defined petrographic composition and state of oxidation comprising 98-99 percent organic material and not containing SiO₂ were obtained experimentally. After intratracheal administration of these coal dust samples to rats, by the results of the histomorphologic and biochemical studies it was established that the rats developed pulmonary fibrosis. Among the trace components of the coal dust, the more expressed fibrogenic reaction was obtained for fusinite. The biological effects caused by the unoxidized coal dust (by comparison with oxidized) appeared more quickly and were most expressed during the first ten days after poisoning.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

UDC 546.791'27'11

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VOLKOV, V. V., GRANKINA, Z. A., and MYAKISHEV. K. G.

"The Nature of Uranium (Tetravalent) Borohydride"

Leningrad, Radiokhimiya, Vol XIII, No 3, 1971, pp 401-405

Abstract: Tetravalent uranium borohydride, $U(BH_4)_4$ is of interest as a member of a comparatively new class of compounds, namely the metal hydroborates noted for the presence of boron hydride ions or radicals. However, the structure of $U(BH_4)_4$, and its appropriate classification in the saltforming or the non-salt-forming categories of metal hydroborates, are in doubt, thanks to contradictory published data.

The authors made a complete infrared analysis of U(BH4)4 samples synthesized by the Brown-Schlesinger method; also, a thermographic study of the samples.

It was concluded that the $U(BH_4)_4$ molecule is of "bridge" structure, which involves the presence of a substantially covalent U-B bond with participation of the "bridge" atoms of hydrogen. Further, it was shown that 1/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

VOLKOV, V. V., et al., Radiokhimiya, Vol XIII, No 3, 1971, pp 401-405

U(BH₄), does not undergo any phase transformations in the temperature interval from --180 to 55°C. The interplanar distances which may charinterval acterize U(BH4)4 were also determined.

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AP9053098

UR 0289

PRIMARY SOURCE:

Izvestiya Sibirskogo Otdeleniya, AN SSSR, Seriya Khimicheskikh Nauk, Nr 12(162), Nr 5,

pp 144-146

V. V. Volkov,

K. G. Myakischev, G. I. Bagr

FUSSION DIAGRAMM OF THE SYSTEM ZIRCONIUM BOROHYDRYDE-DIOXANE

Mutual solubility in the system zirconium borohydryde dioxane was studied by, the low temperature differential thermal analysis method. It was established that this system is a simple entectic. Entectic point corresponds to the temperature -4°C and 40 mol. % of zirconium borohydryde,

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and desirely range foremasting of temperature, precipitation(and grind. The margine telepated in by the following selections: h. beriow (1988), M. Nedett and J. G. Feppent (Hunzary), R. Kalmid (German Newsontife Kerwhite), d. Feppent (Hunzary), R. Kalmid (German Newsontife Kerwhite), d. J. K. Kelbeu (Romania) and Ab. Isvened (1988), L. Kalbeu (Romania) and Ab. Isvened work with respect to this toute workfills). The foliation of the research work with respect to this toute workfills). Specialist. of the ceteorological survice of the German Deracratic for public Decire? P. Fogler was at the USSK hydromateorological Genter from Interded to the problems of calculating the vertical velocities and the amount of pracipitation for the came of unstable stratification. in 12 dure of this year, a meeting was held at the USWA hydrogeneration field Contex with a representative of the Tolatimization Company, Ya. Garver. B. was find Hartned with the commanication system of the Center. Ya. Garver toll about the continuent built by his company and its use for meteorological latin gathering and processing. Values, A. Reink and K. Myrekki was held at the USBR Hydron-teorestor, can ter on 8 Junes. The guess were familiarized with the activity of the Concer, and they, in turn relid about the product manufactured by the company and the by the mituotological services of Finland and Sueden. On 29 May, the Director of the Antarotto Institute of this because Hario Pabluck whatead the USSA hydromateorological Contor. He was then the with the structure and problems of the Genter and examined the context at (Article by L. H. Miridonov: Moneow. Mirieorologiza i Cidrologiza, Names 11, 1971, pp. 106-107) WORLD APPROPRIESTING OFFICE of the functionalities of the attending was hald at the Hydroresteerelegical that of the functional file. On 14 June, specialists from the Denocratic Republic of Viet 1. Vi Kuass khoust Newer That Luan completed their apprenticeship at the meteorological Center. cursed, and a coordinated program for further studies was developed. tries on the devoluteaut of examptic and physical-etatical extensis of the A discussion with appresentatives of the Swedish-Pinnish company problems of calculating the vertical velocities for the case of unstable stratification the meeting van

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UDC: 621.396.6.002(088.8)

MYAKISHEV V A. Omsk Radio Plant imeni A. S. Popov

"A Suspension Device for an Assembly Conveyer"

USSR Author's Certificate No 280590, filed 29 Apr 69, published 17 Nov 70 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6V285 P)

AND SEPARATE PROGRESSION DE PROGRESSION DE SERVICION DE L'ARREST DE PROGRESSION DE PROGRESSION DE PROGRESSION

Translation: A suspension device for an assembly conveyer is proposed which contains an L-shaped rod connected to a support link which accommodates the unit being transported along the assembly sections. To improve the operational reliability of the device, two rings are used as a connecting element. Between these rings is a bearing which is connected to a third ring carrying a bracket equipped with two half-rings connected to the support link by an auxiliary bearing and ring.

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USSR

UDC: 666.764.32

IGNATOVA, T. S., BELYAKOVA, N. P., PERMIKINA, N. M., SEMKINA, N. V., MYAKISHEVA, N. A., and YEVDOKIMOVA, Z. U., Eastern Institute of Refractories

"Effect of Technological Factors on the Density and Microstructure of Corundum Ceramics Containing 1% Titanium Oxide"

Moscow, Ogneupory, No 8, 70, pp 32-35

Abstract: This study demonstrates the dependence of the microstructure and the density of corundum ceremics on the method of grinding, the dispersity of the silica, the method of molding and the annealing temperatures of the finished product. A higher dispersity, vibratory grinding, high annealing temperatures, and TiO₂ additions promote the formation of a macrocrystalline structure, which in turn is responsible for the greater heat resistance of the material. A higher dispersity of the silica increases the intensity of

1/2

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IGNATOVA, T. S., et al. Ogneupory, No 8, 70, pp 32-35

crystallization at high temperatures and initiates recrystallization of corundum at a much lower annealing temperature. Vibratory grinding intensifies recrystallication and the formation of a macrocrystalline intensifies recrystallication and the formation of a macrocrystalline structure, which causes loosening of the body and decreases the density. It appears that the higher thermal resistance and lower strength of corundum parts with macrocrystalline structures are related to some increase in apparent porosity.

2/2

UNCLASSIFIED

PROCESSING DATE--- 27NOV70

TITLE--TRANSPORT OF AMALGAM IN MERCURY CELL ELECTROLYSIS -U-

AUTHOR-102)-AGALTSDV, A.M., MYAKISHEVA, T.D.

COUNTRY OF INFO--USSR

SCURCE--U.S.S.R. 264,372
REFERENCE--OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970, 47(9)

DATE PUBLISHED--03MAR 70

SUBJECT AREAS-HATERIALS, CHEMISTRY

TOPIC TAGS-AMALGAM, MERCURY, METALLURGIC PATENT, CHEMICAL PATENT, ELECTRULYSIS, ELECTROLYTIC CELL, SURFACE TENSION

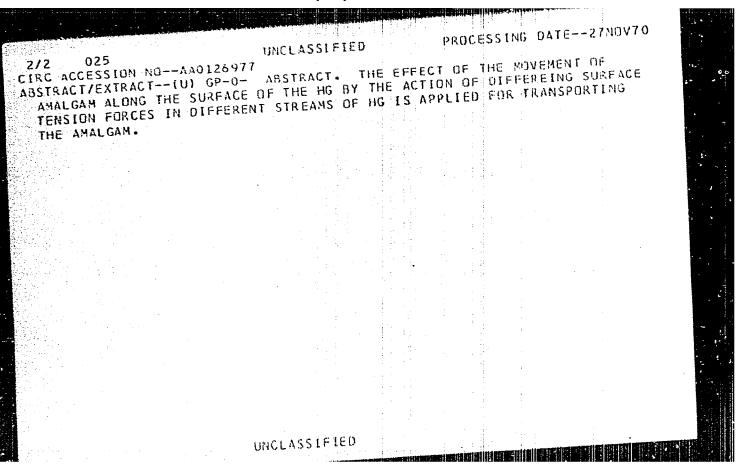
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/1446

STEP NO--UR/0482/76/000/000/0000/0000

CIRC ACCESSION NO--AA0126977

UNCLASSIFIED



1/2 025 UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--RHEGENCEPHALOGRAPHY IN THE DIAGNOSIS OF BRAIN TUMORS -U-

AUTHOR-(04)-SHEFER, D.G., SKRYABIN, V.V., MYAKOTA, A.YE., SAKOVICH, V.P.

COUNTRY OF INFO--USSR

SOURCE-ZHURNAL NEVROPATOLOGII I PSIKHIATRII IMENI S. S. KORSAKOVA, 1970, VOL 70, NR 5, PP 680-684

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-TUMOR, BRAIN, HYPERTENSION, INTRACRANIAL PRESSURE, DIAGNOSTIC .

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/0234

STEP NO--UR/0246/70/070/005/0680/0684

CIRC ACCESSION NO--APO117486

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PROCESSING DATE--160CT70 UNCLASSIFIED 2/2 025 CIRC ACCESSION NO--AP0117486 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. ON THE BASIS OF CLINICAL OBSERVATIONS OF 116 CASES WITH BRAIN TUMORS THE AUTHORS DISCUSS THECCHANGES OF REG DURING THE DIFFERENT STAGES OF THE HYPERTENSIVE SYNDROME. THE RESULTS OF SUCH STUDIES PERMIT TO CONCLUDE THAT THERE IS A CERTAIN CORRELATION BETWEEN THE CLINICAL STAGE OF INTRACTANIAL HYPERTENSION AND THE AMPLITUDE FREQUENCY CHARACTERISTICS IN THE REGISTERED CURVES. THE AUTHORS RECOMMENDED TO TAKE INTO CONSIDERATION THIS FACT IN A CLINICAL INTERPRETATION OF THE REG DATA, INASMUCH, AS THE FOCAL SYMPTOMS OF TUMORS MAY BE EXPRESSED ON THE BACKGROUND OF SUCH CHANGES OF THE REG WHICH IS CONDITIONED BY AN INCREASE OF THE FACILITY: KUINIKA NERVNYKH BOLEZNEY I INTRACRANIAL PRESSURE. NEYROKHIRURGII SVEROLOVSK MEDITSINSKOGO INSTITUTA. UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

M

Acc. Nr. APC048833_ Abstracting Service: CHEMICAL ABST.

Ref. Code UR0460

poly(vinyl chloride). Myakov V N: Troitskii, B. B. (USSR). Vysokomol. Soedin., Sel. B 1970, 12(2), 100-1 (Russ). The effect of Hg on the kinetics of thermal dehydrochlorination of suspension poly(vinyl chloride) (I, mol. wt. 62,000) was investigated. The decompn. was 'carried out in sealed ampuls at 190-200 ± 0.5°/10⁻¹-10⁻² mm. Photomicrographs showed that Hg markedly retarded the dehydrochlorination of I and autocatalyzed thermal degradation was not obsd. in the presence of Hg. At 200°, \$\leq 0.3-0.5\$ mg/hr g Hg stabilizer was converted into Hg*. The stabilizing effect of Hg was attributed to its high effectiveness as a Cl- acceptor.

Lp

REEL/FRAME 19800600

UR 0482 AA0051858 Soviet Inventions Illustrated, Section II Electrical, Derwent, 242273 TEST EQUIPMENT FOR MEASUREMENT OF AMPLITUDE AND, PHASE FINCTUATION containing He generator modulator, IF generator and phase shifter. The measurement set contains HF phase detector and LF analyser. To eliminate the effect of moise in the test equipment the outlet of the generator is connected via phase shifter to the mixer and to the input of phase of amplitude modulator. The second input to modulator is associated with LF generator. 29.3.68 as 1228784/26-9. A.N.MYALIK et al.(11.9.69) Bul 15/25.4.69. Class 21c. Int.Cl.G Olr. A. N.; Pshenichnikov Myalik. AUTHORS: A. F. 19820293

1/2 022 UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--MAGNETO RESISTANCE IN THIN FILMS OF NICKEL PALLADIUM ALLOY SYSTEMS

AUTHOR-(04)-ANNAYEV, R.G., ROZYEV, M.A., MYALIKGULYEV, G., YAZLIYEV, S.

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK TURKM. SSR, SER. FIZ. TEKH., KHIM. GEOL. NAUK

DATE PUBLISHED----70

SUBJECT AREAS -- MATERIALS, PHYSICS

TOPIC TAGS--NICKEL ALLOY, PALLADIUM ALLOY, METAL FILM, MAGNETORESISTANCE, MAGNETIZATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY RFEL/FRAME--1984/0184

STEP NO--UR/0202/70/000/001/0101/0105

CIRC ACCESSION NO--APO054980

UNCLASSIFIED

2/2 022 UNCLASSIFIED PROCESSING DATE—18SEP70
CIRC ACCESSION NO—APO054980
ABSTRACT/EXTRACT—(U) GP-0— ABSTRACT. THE LONGITANCE WAS MEASURED IN
THIN NI—PD FILMS OVER A WIDE RANGE OF THICKNESS AND COMPN. TO CONFIRM
THE 1 PHASE NATURE OF THE FILMS. FILMS 600—1200 ANGSTROMS THICK CONTG.
0—80 AT. PERCENT PD WERE PREPO. BY THE METHODS DESCRIBED EARLIER (1969).
A STRONG EFFECT OF THE TRUE MAGNETIZATION WAS OBSD. FOR ALL OF THE
FILMS EVEN AT ROOM TEMP. THE FILMS CONTG. SMALLER THAN OR EQUAL TO 40
AT. PERCENT PD ARE SINGLE PHASE.

USSR

UDC 539.171.017 >

AZIMOV, S. A., MYALKOVSKIY, V. M., NURITDINOV, Kh., RASULKULOV, M. S., ABDULLAYEV, A. M., BEYSEMBATTY, MARKULLIN, Ye. V., TALIPOV, D. A., MULLAZHONOV, E. Zh., TILLAYEV, T., RAKHMANOV, Zh., UMEROV, R., ULIMAYEVA, F. A., KHEN, E., YULDASHBAYEV, T. S., Institute of Nuclear Physics of the Academy of Sciences Uzbek SSR

"Study of the Characteristics of High-Energy Interactions of Pions and Nucleons"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Yol. 36, No. 8, Aug 72, pp 1626-1631

Abstract: Experimental data obtained at the Kum-Bel' High-Altitude Station of the Physicotechnical Institute of the Academy of Sciences Uzbek SSR are reported. The station is 3200 m above sea level. The setup contains three series of wide-gap spark chambers with effective areas of 2 m² placed above and below the target. The Cerenkov spectrometer with total absorption and an ionization calorimeter with an area of 10 m² were used to measure the primary energy E_0 . Up to the present time experimental data obtained over 630 hours of operation of the device have been processed, with a high-voltage pulse being supplied to the electrodes of the spark chambers. Showers with an energy of > 200 Gey generated in the target were selected for analysis. The following ratio was obtained for the number 1/2

USSR

AZIMOV, S. A., et al., Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Vol 36, No 8, Aug 72, pp 1626-1631

of primary charged $N_{\rm C}$ and neutral $N_{\rm n}$ particles: $N_{\rm C}/N_{\rm n}=2.3\pm0.3$; this shows that the proportion of charged particles is $\sim 34\%$ of all nuclear active particles, thus making it possible to study pion-nuclear collisions by comparing the characteristics of the interaction of charged and neutral primary particles. A weak functional dependence between the inelasticity coefficient $< K_{\rm qe} >$ and the atomic number of the target nucleus and a strong functional dependence between this coefficient and the nature of the primary particles were obtained for interactions of hadron with $E_0 > 200$ GeV. $< n_{\rm g} >$ is almost a logarithmic function of E_0 . The average multiplicity in the interaction of pions with neutrons in paraffin is identical within the experimental limit. A considerable azimuthal effect was observed for the angular distribution of secondary particles. The azimuthal effect has its greatest value for showers with $n_{\rm g} = 8$ -15, or a multiplicity close to average.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

UDC 539.171.017

> USSR

ABDULLAYEV, A. M., AZIMOV, S. A., BEYSEMBAYEV, R. U., BELITSKIY, M. T., MILLIZHANOV, E. ZH., MYALKOVSKTY, V. M., TALIPOV, T. A., TILLAYEV, T., UMEROV, R., KHEN, E., and YOLDASHBAYEV, T. S.

"Study of Characteristics of Inelastic Interactions of Cosmic-Ray Particles in the 1011 to 1012-ev Energy Range"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Vol 35, No 10, Oct 71, pp 2065-2068

Abstract: Experiments that were performed at the high-altitude test station (3,200 m.) at Kum-Bel' in Uzbekistan are described. The purpose of the experiments was to investigate the angle of arrival and the energy characteristics of interactions of pions and nucleons with light and heavy nuclei at 2 x 1011 to 2 x 10^{12} ev and the mechanism of generating muons at energies above 2 x 10^{12} ev. Equipment consisted of spark chambers, located above and below the target (paraffin wax, carbon, and iron), a Cerenkov spectrometer of full absorption, and an ionization calorimeter. This complex method of measurements was found convenient for use in various modes of operation. A detailed description of various parts of the installation and their disposition is given in the paper.

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ABULLAYEV, A. M., et al., Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Vol 35, No 10, Oct 71, pp 2065-2068

Joint operation of ionizing calorimeters and spark chambers is normally difficult because of the need for high voltage on the calorimeter electrodes, combined with the time lag of the input pulse from the spark chambers, amounting to over 20 microseconds. This difficulty was avoided in the present experiments by storing pulses in memory cells, with the subsequent input of a high-voltage pulse of about 120 kv. Operation was controlled by a masterpulse, prior to which all parts of the equipment were kept inoperative. Results of 200 hours of the joint operation of a Cerenkov spectrometer

and ionizing calorimeter, with graphite used as the target, have been processed so far. For analysis, showers with energy above 1.5 x 1011 ev were selected, 130 of them having been observed. The ratio of charged to neutral nucleons were determined and, from it, the fraction of charged pions of the total nucleus-active stream of particles. The inelastic coefficient for the formation of 570-mesons was computed from the experiments related to the interaction of neutral particles with nuclei of graphite.

It is concluded that the combination of ionizing calorimeter with Cerenkov spectrometer of full absorption for the simultaneous determination of energy of primary particles made it possible to determine the fraction of 2/3

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ABULLAYEV, A. M., et al., Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Vol. 35, No 10, Oct 71, pp 2065-2068

energy supplied by the ionizing particles $\widetilde{\mathcal{H}}$, since a Cerenkov spectrometer measures only the energy emitted by relativistic particles. It was found that for the mean energy of primary particles of 350 Gev the energy part lost on nuclear fissions in the spectrometer, with CCl4 as the light emitter, is 7 = 0.25,

cso: 1862-W

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MYAMLIN A. NUR 0482

Soviet Inventions Illustrated, Section II Electrical, Derwent, 1/70

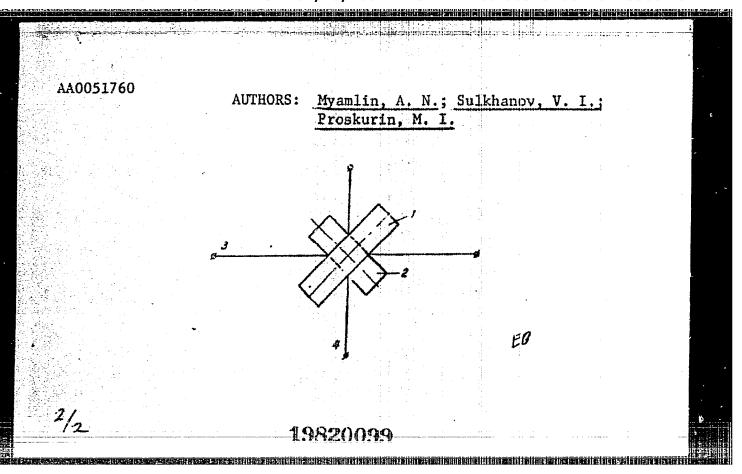
237933 MEMORY ELEMENT. One magnetic core (2) is inside the other (1). Through the centre are passing lines (3) and (4). In figure 2, I, is the current applied to line (3), while I2 is the current applied to line (4). Reading current (Isch) is applied to line (3) and the output signal (U sign) is outgoing from line (4).

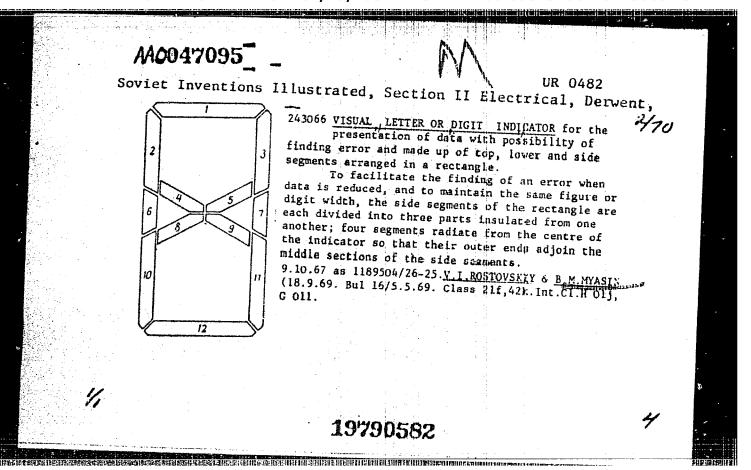
During writing the sum of the two durrents is applied, one is half amplitude Isiu and second is magnetizing current equal to $\frac{1}{2}$ of the writing current (Izp/2). At the same time is applied magnetizing current to line (4) which is equal to (I2p/2). I1 = I sin + I2p/2. I2 = ± Izp/2. After writing one toroid will leave an inductance equal to 0, the other ± Br. When reading, the polarity of the output for "1" and "0" is of opposite sign. 23.1.68 as 1212368/18-24. A.W.MIAMLIN et alia. (18.7.69) Bul 9/20.2.69. Class 21a. Int.Cl.H O3k.

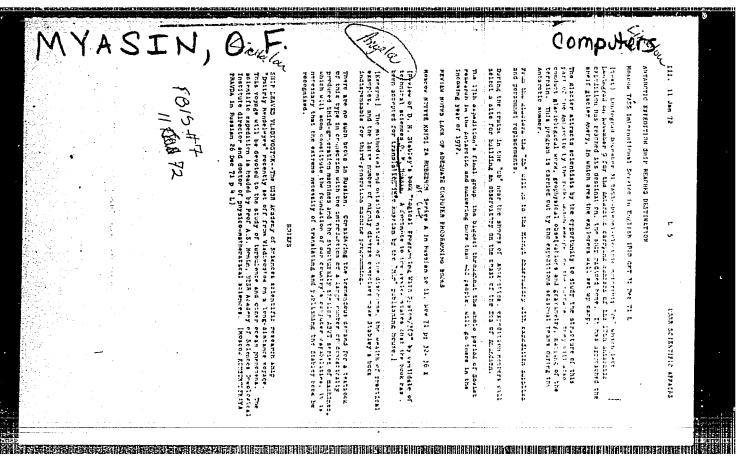
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19820098







UNCLASSIFIED PROCESSING DATE-300CT70 1/2 018

TITLE-PASCHEN BACK EFFECT FOR THE MUONIUM ATOM -U-

海 南海 经保险 计自由 植物学 AUTHOR-(05)-MINAYCHEV, YE.V., MYASISHCHEVA, G.G., OBUKHOV, YU.V., ROGANOV.

V.S., SAVELYEV, G.I.

CCUNTRY OF INFO--USSR SOURCE-ZHURNAL EKSPERIMENTAL NOY I TEORETICHESKOY FIZIKI, 1970, VOL 58,

NR 5, PP 1586-1592

DATE PUBLISHED----70

SUBJECT AREAS-PHYSICS

TOPIC TAGS-LONGITUDINAL MAGNETIC FIELD, MAGNETIC FIELD INTENSITY, MAGNETIC POLARIZATION, MUGN, SINGLE CRYSTAL PROPERTY, QUARTZ, CORUNDUM

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--3001/2236

STEP NO--UR/0056/70/056/005/1586/1592

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CIRC ACCESSION NO-AP0127598

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CIRC ACCESSION NO—APO127598

ABSTRACT/EXTRACT—(U) GP-O— ABSTRACT. THE POLARIZATIONOF MU PRIME
POSITIVE MESONS AS A FUNCTION OF LONGITUDINAL MAGNETIC FIELD STRENGTH IS
MEASURED BETWEEN O AND 3 KOE IN SINGLE CRYSTAL QUARTZ AND CORUNDUM. FOR
QUARTZ THE EXPERIMENTAL DATA ARE FOUND TO BE IN GOOD AGREEMENT WITH THE
THEORY OF MUONIUM DEPOLARIZATION. THE EXPERIMENTAL VALUE OF THE
CRITICAL MAGNETIC FIELD STRENGTH FOR MUONIUM IN QUARTZ EQUALS WITHIN THE
EXPERIMENTAL ERRORS THE VALUE OBTAINED IN VACUUM. THE POSSIBLITIES
WHICH THE METHOD AFFORDS FOR MEASURING THE SIZE OF MUONIUM IN VARIOUS
MEDIA ARE CONSIDERED.

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--230CT70 TITLE--EFFECT OF THE CRYSTAL LATTICE OF SILICON ON THE HYPERFINE SPLITTING AUTHOR-(05)-ANDRIANOV, D.G., MINAYCHEV, YE.V., MYASISHCHEVA, G.G., OBUKHOV, YU.V., ROGANOV, V.S. COUNTRY OF INFO--USSR SOURCE--ZHURNAL EKSPERIMENTAL NOY I TEORETICHESKOY FIZIKI, 1970, VOL 58, NR 6, PP 1896-1898 DATE PUBLISHED ---- 70 SUBJECT AREAS -- PHYSICS TOPIC TAGS--CRYSTAL LATTICE, SILICON, SINGLE CRYSTAL, LONGITUDINAL MAGNETIC FIELD CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0056/70/058/006/1896/1898 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/1728 CIRC ACCESSION NO--AP0120440 UNCLASSIFIED

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2/2 022 UNCLASSIFIED PROCESSING DATE--230CT70
CIRC ACCESSION NO--AP0120440
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ABSTRACT/EXTRACT--(U) GP-0- ARSTRACT. THE DEPENDENCE OF MU E DECAY
ANGASTROM ON LONGITUDINAL MAGNETIC FIELD STRENGTH IS MEASURED IN
SILICEN SINGLE CRYSTALS. THE HYPERFINE SPLITTING SNERGY OF THE MUCNIUM
ATOM IN THE CRYSTAL LATTICE DIFFERS FROM THE VACUUM VALUE AND
CORRESPONDS TO A MUONUIM SIZE R EQUALS (9,719 PLUS OR MINUS 9,016)
ANGSTROM.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

UNCLASSIFIED

PROCESSING DATE--160CT70 TITLE-STUDY OF THE EXCRETION OF PURINES AND URIC FROM URINE OF PATIENTS SUFFERING FROM LEUKENTA WITH VARIOUS CONTENT OF COBANIDE COMPOUNDS IN AUTHOR-(05)-MYASISHCHEVA, N.V., SHEREMET, Z.I., LEVINA, G.O., LORIE, YU.I. RAUSHENBAKH, M.O. COUNTRY OF INFO--USSR SOURCE--PROBL GEMATOL PERELIV KROVI 15111, 36-43. 1970 DATE PUBLISHED ----- 70 SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS-LEUKEMIA, URINE, ORGANIC ACIO, PURINE, EXCRETION, VITAMIN, COBALT COMPOUND CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/9080/70/015/001/0036/0043 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/0248 CIRC ACCESSION NO--APOLITION UNCLASSIFIED

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PROCESSING DATE--160CT70

CIRC ACCESSION NO--APO117500

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. A TOTAL OF 24 PERSONS WERE
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EXAMINED. IN THE PATIENTS WITH INCREASED LEVEL OF B SUB12 IN THE BLOOD

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NOT ONLY AN INTENSIFIED EXCRETION OF PURINES AND OF THEIR METHYLATED DERIVATIVES.

INTENSIFIED EXCRETION OF PURINES AND OF THEIR METHYLATED DERIVATIVES.

FACILITY: INST. EXP. CLIN. ONCOL., ACAD. MEO. SCI. USSR, MUSCOW,

USSR.

UNCLASSIFIED

USSR

VDC: 51

KRIVONOGOV, Yu. A. and MYASKOVSKIY, G. M.

"Optimizing a Combination of the Technical Means of Operative Control Systems"

Upravlyayushchiye sistemy i mashiny (Control Systems and Machines)
No 2, 1973, pp 95-100 (from RZh-Matematika, No 1, 1974, Abstract
No 1V551)

Translation: A method is considered for optimizing the structure and complex of technical means (CTM) of operative control systems for a specific production process in conformance with actual conditions of its operation, taking into account the operational reliability of the CTM and the operativity of the solution to the problems generated by their sources. Authors' abstract.

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UNCLASSIFIED

PROCESSING DATE--20NOV70

TITLE--ELECTRODEPCSITION OF IRON ALLOYS -U-

AUTHOR-(04)-VINIESKIY, A.G., KOVTUN, V.I., PUDA, V.A., MYASKOVSKIY, L.M.

COUNTRY OF INFO--LSSR

SCURCE--U.S.S.R. 264,097

REFERENCE-OTKRYTIYA, IZDBRET., PROM. CBRAZTSY, TOVARNYE ZNAKI 1970,

DATE PUBLISHED--10FEB70

SUBJECT AREAS -- CHEMISTRY, MATERIALS

TOPIC TAGS-CHEMICAL PATENT, IRON COBART ALLCY, MANGANESE ALLOY,

ELECTROLYTE, ELECTRODEPOSITION, METAL DEPOSITION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME-3004/1827

STEP NO--UR/0482770/000/000/0000/0000

CIRC ACCESSION NU-+AA0132092

UNCLASSIFIED

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WC 577.891.663.19/14

USSR

PETIN, V. G. and MYASNIK, H. N., Scientific Research Institute of Medical Radiology, Academy of Medical Sciences USSR, Obnisk

"Analysis of Using Alpha-Particles for Suppressing Recovery of Bacterial Cells"

Moscow, Radiobiologiya, Vol 12, No 1, Jan/ Feb 72, pp 85-91

Abstract: A detailed analysis is made of the seven "facts" constituting radiobiological evidence for the role of recovery processes in the radio-resistance of bacterial cells. This system of evidence was based on a hypothesis that alpha irradiation suppresses reparative systems in cells. hypothesis that alpha irradiation between recovery processes registered biochemically on the molecular level and the radiosemultivity of cells. A careful analysis of experimental data revealed that this evidence is either artificial, arising from methodological errors, or the result of insufficiently critical analyses. The original hypothesis about alpha-particles is proved incorrect. The authors mention that there is no literature to assess correctly the role of postradiation recovery in microorganisms' sensitivity to radiation with differing linear energy losses.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130002-9"

Polymers and Polymerization

UDC 666.113/117

USSR

KLIMENTOVA, YU. P., KIRICHENKO, L. F., ASLAHOVA, M. S., MYASNIKOV, A. A., CHERTOV, V. M., VYSOTSKIY, E. A., Institute of Physical Chemistry, imeni L. V. Pisarzhevskiy, Ukr. Academy of Sciences; and All-Union Scientific-Research Institute of Fiberglass and Fibers

"Effect of Hydrothermal Treatment on the Texture of Silicon Fibers"

Leningrad, Zhurnal Prikladnoy Khimii, Vol 坤, No 8, 1971, pp 1725-1730

Abstract: The texture of glass fibers strongly depends on their origin natural or basaltic glass. The texture of silicon glass is dealt with here, as it is affected by hydrothermal processing. A number of physical features are taken into account.

It is shown that with hydrothermal processing of fine-pore silicon fibers at 100-300°C, and autoclaving for 3-24 hours, increase in either of these factors will secure a substantial reduction in the size of micropores and in the specific surface of the fiber, 1/2

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KLIMENTOVA, YU. P., et al, Zhurnal Prikladnoy Khimii, Vol 44, No 8, 1971, pp 1725-1730

which means also that the volume of sorption space falls off. Hydrothermal processing at 200°C will produce a good number of ultrapores in silicon fibers, and these will be accessible to the water molecules, though not to those of benzene.

Precise data on textural characteristics of silicon fibers accompany the paper.

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Environmental and Ecological Problems

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DOROGOKUPLYA, A. G., ADIL'GIREYEVA, I. KH., and MYASNIKOV, A. I., Institute of Clinical and Experimental Surgery, Ministry of Public Health, Kazakh SSR

"Effect of Smoke-Contaminated Air on the Bodies of White Rats Suffering A-Hypovitaminosis"

Alma-Ata, Izvestiya Akademii Nauk Kazakhskoy SSR, Seriya Biologicheskaya, No 3, May/Jun 72, pp 57-60

Abstract: The relationship between vitamin A deficiency and the effects of chemical carcinogens was studied by subjecting rats to up to 1 year in a smoke chamber. Tissues of 25 rats fed a Sherman diet (vitamin A-deficient) and rats given a complete diet were inspected microscopically and histologically for the presence of 3,4-benzpyrene and for pathological changes. Such changes and accumulation of the carinogen were noted earlier in vitamin-deficient rats (within 60 days) than in control rats (100 days). Moreover 7 of 25 control (within 60 days) than in control rats (100 days). Moreover 7 of 25 control rats survived up to 1 year while all vitamin-deficient rats died in 90 days. Though appearing earlier, the pathological changes in vitamin-deficient rats were comparable to those in control rats: Terminal conditions included adenoma and epithelial proliferation in the lungs, bepatitis, uncornified squamous cell earcinoma in the esophagus and forestomach, and ulcerous gastritis and epithelial proliferation in the stomach. Thus A-hypovitaminosis facilitates appearance of a cancerous condition in the presence of a carcinogen.

UDC: 539.43

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SHETULOV, D. I., MAGIDOV, M. B., MYASNIKOV, A. M., SHIBAROV, V. V., and SOKOLOV, L. D., Gor'kiy

"Study of Hardening in the Process of Fatigue in Some Pure Metals"

Moscow, Izvestiya Akademii Nauk SSSR, Metally, no 6, Nov-Dec 70, pp 165-169

Abstract: Earlier research has shown that the capacity of metals to resist varying stresses is inversely related to their capacity to harden. under static stress. The coefficient of hardening is determined by the slope of the stress-strain curve (hardening curve). The slope of the fatigue curve demonstrates the capacity of materials to resist varying streams "better" or "worse". The value of the slope of the hardening curve waries inversely with the packing defect energy (γ), while the slope of the fatigue curve with the packing defect energy (γ), while the slope of the fatigue curve is a direct function of γ. Described here is an attempt to correlate both of these characteristics. The metals involved in the study ware Al, Cd, Zn, Cu, Fe, and Ti. The experimental results indicate that the inclinations of the fatigue curves to the X-axis correlate with the packing defect energy (γ), i.e., the higher the γ, the steeper the slope. The slope of the fatigue curves is related to the slope of the hardening curve, i.e., the flatter the slope of the fatigue curve, the steeper the hardening curve.

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UDC. 621.372.853

PARSHIN, P. I., MYASNIKOV, G. G.

"A Device for Protecting a Magnetron From Breakdown"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 11, Apr 71, Author's Certificate No 298978, division H, filed 22 Sep 69, published 16 Mar 71, p 179

Translation: This Author's Certificate introduces a device for protecting a magnetron from breakdown. The unit contains a waveguide section, blocking relay, power supply and electrode. As a distinguishing feature of the patent, to increase the concentration of charged particles under the electrode, a dielectric diaphragm is mounted between the magnetron and the above-mentioned electrode.

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